

METHOD AND DEVICE FOR CHARGING SECONDARY BATTERY**Publication number:** JP2000106219**Publication date:** 2000-04-11**Inventor:** ASAO MASAYA; KAWAKAMI SOICHIRO**Applicant:** CANON KK**Classification:****- international:** *H01M10/40; H01M10/44; H02J7/00; H02J7/10; H01M10/36; H01M10/42; H02J7/00; H02J7/10; (IPC1-7): H01M10/44; H01M10/40***- european:** *H01M10/40L2; H01M10/44; H02J7/00C1B; H02J7/00M10B1; H02J7/00M10E***Application number:** JP19990194288 19990708**Priority number(s):** JP19990194288 19990708; JP19980229549 19980731**Also published as:**

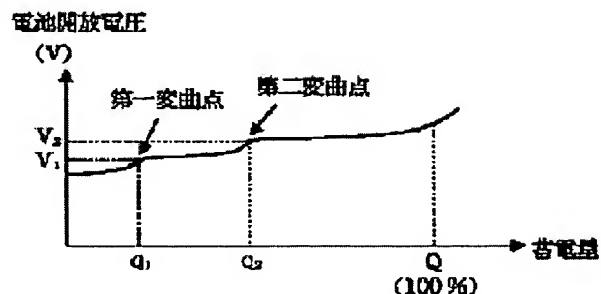
EP0981194 (A2)

US6377030 (B1)

EP0981194 (A3)

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PROBLEM TO BE SOLVED: To provide a secondary battery charging method which enhanced the charge and discharge cycle characteristic of a battery by reducing the charge and discharge cycle initial irreversible quantity of the battery after fabrication. **SOLUTION:** A method for charging a secondary battery having a curve of negative electrode potential or positive electrode potential to charging amount or an open voltage curve of the battery to the charging amount, with inflection points present on the curve, includes a process, in which during the operation of charging the battery by means of a charging current or charging voltage of a predetermined waveform, the battery is charged to full by causing the waveform of the charging current or charging voltage to fluctuate before the charging amount reaches one of the inflection points. This fluctuation is accompanied by an increase and/or decrease and the waveform fluctuated is that of a rectangular wave, a stepped wave, a saw-toothed wave, a sign wave, or a combination of two of them.



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